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DATE MAILED: 12/08/2004

APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/838,406	04/19/2001		Alain Benayoun	FR920000008US1	9357
26502	7590	12/08/2004		EXAMINER	
IBM CORPORATION			PEZZLO, JOHN		
IPLAW IQO		r		ART UNIT	PAPER NUMBER
ENDICOT		='		2662	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	Applicant(s) BENAYOUN ET AL.	
	09/838,406	BENAYOUN ET AL.		
Office Action Summary	Examiner	Art Unit		
	John Pezzlo	2662		
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet wit	the correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply within the statutory minimum of thirty will apply and will expire SIX (6) MONT, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on				
	— s action is non-final.			
3) Since this application is in condition for alloware closed in accordance with the practice under	ince except for formal matte	•		
Disposition of Claims				
<ul> <li>4)  Claim(s) 1-15 is/are pending in the application 4a) Of the above claim(s) is/are withdra</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-15 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or</li> </ul>	wn from consideration.			
Application Papers				
9)☐ The specification is objected to by the Examine	er.			
10)⊠ The drawing(s) filed on 19 April 2001 is/are: a	)  ☐ accepted or b)  ☐ object	ed to by the Examiner.		
Applicant may not request that any objection to the		` '		
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	•	, , ,		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	ts have been received. ts have been received in Ap pritý documents have been r uu (PCT Rule 17.2(a)).	plication No eceived in this National Stage		
Attachment(s)		•		
Notice of References Cited (PTO-892)	4) 🔲 Interview Su			
<ul> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ul>		Mail Date  ormal Patent Application (PTO-152)  -		

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- I. Claims 1-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Yu (US 5,734,865).
- 1. Regarding claims 1, 9, and 10 Yu discloses a router (gateway router) suitable for use in transmitting a packet of data through a communication network wherein the best route through the network is determined at each node, Yu discloses the TCP/IP protocol wherein at each node and for each IP packet a route is determined, refer to column 3 lines 35 to 45 and column 10 lines 45 to 65.

Yu discloses logic for identifying and extracting higher-layer information carried by at least one of the layers above the lowest three layers of a communication protocol of a received packet, Yu discloses the use of TCP/IP and FTP wherein the TCP and FTP protocols are above layer three and the port number of the TCP protocol is extracted by the IP protocol and converted to a destination and source address, refer to Figures 2 and 3 and column 3 lines 55 to 67 and column 4 lines 1 to 20 and column 11 lines 65 to 67 and column 12 lines 1 to 40.

Yu discloses a configuration table for associating the higher-layer information with lower-layer information carried by at least one of the lowest three layers of the communication protocol, Yu discloses a LAN physical layer and utilizing data structures (configuration tables) to map the FTP and TCP/IP information to the Ethernet addresses, refer to Figures 4 and 5 and column 13 lines 48 to 67 and column 14 lines 1 to 32 and columns 15 and 16.

Yu discloses a routing table for determining routing of the packet, responsive to the lower-layer information, refer to Figure 2 and column 10 lines 65 to 67 and column 11 lines 1 to 18.

- 2. Regarding claims 2 and 4 and 11 and 13 Yu discloses the higher-layer information comprises a protocol identifier and a port number, Yu discloses the use of the FTP application and the TCP/IP protocol wherein the TCP protocol includes the identifier of the FTP protocol and a port number associated with the application, refer to column 4 lines 4 to 20 and column 11 lines 65 to 67 and column 12 lines 1 to 25.
- 3. Regarding claims 3 and 12 Yu discloses the lower-layer information comprises a type of service identifier, Yu discloses a socket which identifies an application (type of service) and discloses that the socket is defined by an IP address, refer to Figure 3 and column 11 line 65 to column 12 line 15.
- 4. Regarding claims 5 and 14 Yu discloses the lower-layer information is carried by Internet Protocol (IP), refer to Figure 3 and column 11 line 65 to column 12 line 15.

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- 5. Regarding claims 6 and 15 Yu discloses the higher-layer information is carried by Transmission Control Protocol (TCP), refer to Figure 3 and column 11 line 65 to column 12 line 15.
- 6. Regarding claim 7 Yu discloses the logic further comprises a forwarding processing unit, refer to Figure 1b and column 9 lines 10 to 64.
- 7. Regarding claim 8 Yu discloses the logic further comprises a forwarding processing unit, Figure 1b and column 9 lines 10 to 64.

## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

1. Jorgensen (US 6,640,248 B1) discloses an application-aware, QoS sensitive, MAC layer.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Pezzlo whose telephone number is (571) 272-3090. The examiner can normally be reached on Monday to Friday from 8:30 AM to 4:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou, can be reached on (571) 272-3088. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2600.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C.

or faxed to:

(703) 872-9306

For informal or draft communications, please label "PROPOSED" or "DRAFT"

Hand delivered responses should be brought to:

Jefferson Building

500 Dulany Street

Alexandria, VA.

John Pezzlo

1 December 2004

JOHN PEZZLO
PRIMARY EXAMINER